

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	103	(o-glycan alpha2,8-sialyltransferase) and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/02 09:17
L2	0	(o-glycan alpha2,8-sialyltransferase) and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/06/02 09:16
L3	0	o-glycan 2,8-sialyltransferase and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2006/06/02 09:18
L4	0	o-glycan sialyltransferase and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	NEAR	ON	2006/06/02 09:18
L5	717	o-glycan sialyltransferase and @py<"2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/02 09:19
L6	1176	sialyltransferases	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/02 09:20
L7	84	I6 and o-glycans	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/06/02 09:20

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=> s

ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):s O-glycan alpha2,8-sialyltransferase
or ST8Sia VI

1 FILES SEARCHED...

L1 12 S O-GLYCAN ALPHA2,8-SIALYLTRANSFERASE OR ST8SIA VI

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 5 DUP REM L1 (7 DUPLICATES REMOVED)
ANSWER '1' FROM FILE MEDLINE
ANSWERS '2-3' FROM FILE JICST-EPLUS
ANSWERS '4-5' FROM FILE CAPLUS

=> d his

(FILE 'HOME' ENTERED AT 10:07:51 ON 02 JUN 2006)

FILE 'MEDLINE, AGRICOLA, DRUGU, JICST-EPLUS, CABA, BIOTECHNO, BIOSIS, CAPLUS, LIFESCI, BIOTECHDS, EMBASE, BIOENG, SCISEARCH' ENTERED AT 10:08:15 ON 02 JUN 2006

L1 12 S S O-GLYCAN ALPHA2,8-SIALYLTRANSFERASE OR ST8SIA VI
L2 5 DUP REM L1 (7 DUPLICATES REMOVED)

=> d 12 ibib abs total

L2 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 2
ACCESSION NUMBER: 2002362185 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11980897
TITLE: Molecular cloning and expression of a sixth type of alpha 2,8-sialyltransferase (ST8Sia VI) that sialylates O-glycans.
AUTHOR: Takashima Shou; Ishida Hide-Ki; Inazu Toshiyuki; Ando Takayuki; Ishida Hideharu; Kiso Makoto; Tsuji Shuichi; Tsujimoto Masafumi
CORPORATE SOURCE: Laboratory of Cellular Biochemistry, RIKEN (Institute of Physical and Chemical Research), 2-1 Hirosawa, Wako, Saitama 351-0198, Japan.
SOURCE: The Journal of biological chemistry, (2002 Jul 5) Vol. 277, No. 27, pp. 24030-8. Electronic Publication: 2002-04-29. Journal code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-AB059544
ENTRY MONTH: 200208
ENTRY DATE: Entered STN: 12 Jul 2002
Last Updated on STN: 5 Jan 2003
Entered Medline: 27 Aug 2002

AB A novel member of the mouse alpha2,8-sialyltransferase (ST8Sia) family, designated ST8Sia VI, was identified by BLAST analysis of expressed sequence tags. The sequence of ST8Sia VI encodes a protein of 398 amino acids and shows 42.0 and 38.3% amino acid sequence identities to mouse alpha2,8-sialyltransferases ST8Sia I (GD3 synthase) and ST8Sia V (GD1c, GT1a, GQ1b, and GT3 synthases), respectively. The recombinant soluble form of ST8Sia VI expressed in COS-7 cells exhibited alpha2,8-sialyltransferase activity toward both glycolipids and glycoproteins that have the NeuAcalpha2,3(6)Gal sequence at the nonreducing end of their carbohydrate groups. This enzyme formed NeuAcalpha2,8NeuAc structures, but not oligosialic or polysialic acid structures. Analysis of the fetuin sialylated by ST8Sia VI indicated that ST8Sia VI prefers O-glycans to N-glycans as acceptor substrates. Substrate specificities and kinetic properties also showed that ST8Sia VI prefers O-glycans to glycolipids as acceptor substrates. ST8Sia VI also exhibited activity toward oligosaccharides such as sialyllactose and sialyllactosamine, and the structure of the minimal acceptor substrate for ST8Sia VI was determined as the NeuAcalpha2,3(6)Gal sequence. The expression of the ST8Sia VI gene was ubiquitous, and the highest expression was observed in kidney, with three major transcripts of 8.2, 3.8, and 2.7 kb. This is the first report of a mammalian alpha2,8-sialyltransferase that sialylates O-glycans preferentially.

L2 ANSWER 2 OF 5 JICST-EPlus COPYRIGHT 2006 JST on STN DUPLICATE 1
ACCESSION NUMBER: 1040819662 JICST-EPlus
TITLE: Unique Enzymatic Properties of Mouse Sialyltransferases, ST6Gal II and ST8Sia VI
AUTHOR: TAKASHIMA S
TSUJI S

CORPORATE SOURCE: Inst. Physical And Chemical Res., Saitama, Jpn
 Ochanomizu Univ., Tokyo, Jpn
 SOURCE: Trends Glycoscience Glycotechnology, (2004) vol. 16, no.
 91, pp. 345-356. Journal Code: L1142A (Fig. 5, Tbl. 2, Ref.
 30)
 CODEN: TGGLEE; ISSN: 0915-7352
 PUB. COUNTRY: Japan
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: Japanese; English
 STATUS: New

AB So far, twenty members of the mouse sialyltransferase family have been identified. Among them, the cDNA cloning of a second type of B-galactoside A2,6-sialyltransferase (ST6Gal II) and a sixth type of A2,8-sialyltransferase (ST8Sia VI) has been performed most recently. ST6Gal II is a counterpart of ST6Gal I, and the ST6Gal II gene has a similar genomic structure to the ST6Gal I gene. But unlike ST6Gal I, which exhibits broad substrate specificity toward oligosaccharides, glycoproteins, and glycolipids, ST6Gal II exhibited limited substrate specificity toward some oligosaccharides and glycoproteins, all of which have the GalB1,4GlcNAc sequence at the nonreducing end of their carbohydrate groups. The expression pattern of the ST6Gal II gene was also different from that of the ST6Gal I gene. Another enzyme, ST8Sia VI, exhibited broad substrate specificity toward glycoproteins, glycolipids, and sialyloligosaccharides, all of which have the NeuAcA2,3(6)Gal sequence at the nonreducing end of their carbohydrate groups. For glycoproteins, ST8Sia VI preferred O-glycans to N-glycans as acceptor substrates. In addition, ST8Sia VI also exhibited higher activity toward O-glycans than glycolipids. It has been shown that ST8Sia VI is the first mammalian A2,8-sialyltransferase that sialylates O-glycans preferentially. (author abst.)

L2 ANSWER 3 OF 5 JICST-EPlus COPYRIGHT 2006 JST on STN
 ACCESSION NUMBER: 1050837858 JICST-EPlus
 TITLE: The involvement of the rainbow trout ST8Sia
 VI in the synthesis of polysialic acid on O-linked
 glycan
 AUTHOR: ASAHINA SHINJI; SATO CHIIHIRO; KITAJIMA KEN
 SATO CHIIHIRO; KITAJIMA KEN
 CORPORATE SOURCE: Nagoya Univ.
 Jst-crest
 SOURCE: Seikagaku, (2005) vol. 77, no. 8, pp. 751. Journal Code:
 G0184A
 CODEN: SEIKAQ; ISSN: 0037-1017
 PUB. COUNTRY: Japan
 DOCUMENT TYPE: Journal; Short Communication
 LANGUAGE: English
 STATUS: New

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1279636 CAPLUS
 DOCUMENT NUMBER: 144:166231
 TITLE: Molecular cloning and expression of a human hST8Sia VI
 (α 2,8-sialyltransferase) responsible for the
 synthesis of the diSia motif on O-glycosylproteins
 AUTHOR(S): Teinturier-Lelievre, Melanie; Julien, Sylvain;
 Juliant, Sylvie; Guerardel, Yann; Duonor-Cerutti,
 Martine; Delannoy, Philippe; Harduin-Lepers, Anne
 CORPORATE SOURCE: Unite de Glycobiologie Structurale et Fonctionnelle,
 CNRS UMR 8576, IFR 118, GDR CNRS 2590, Universite des
 Sciences et Technologies de Lille, Villeneuve d'Ascq,
 F-59655, Fr.
 SOURCE: Biochemical Journal (2005), 392(3), 665-674
 CODEN: BIJOAK; ISSN: 0264-6021
 PUBLISHER: Portland Press Ltd.

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Based on BLAST anal. of the human and mouse genome databases using the human CMP sialic acid; α 2,8-sialyltransferase cDNA (hST8Sia I; E.C. 2.4.99.8), a putative sialyltransferase gene, was identified on human chromosome 10. The genomic organization was found to be similar to that of hST8Sia I and hST8Sia V. Transcriptional expression anal. showed that the newly identified gene was constitutively expressed at low levels in various human tissues and cell lines. We have isolated a full-length cDNA clone from the breast cancer cell line MCF-7 that encoded a type II membrane protein of 398 amino acid residues with the conserved motifs of sialyltransferases. We have established a mammary cell line (MDA-MB-231) stably transfected with the full-length hST8Sia VI and the anal. of sialylated carbohydrate structures expressed at the cell surface clearly indicated the disappearance of Neu5Ac α 2-3-sialylated structures. The transient expression of a truncated soluble form of the enzyme in either COS-7 cells or insect Sf-9 cells led to the production of an active enzyme in which substrate specificity was determined. Detailed substrate specificity anal. of the hST8Sia VI recombinant enzyme in vitro, revealed that this enzyme required the trisaccharide Neu5Ac α 2-3Gal β 1-3GalNAc (where Neu5Ac is N-acetylneuraminic acid and GalNAc is N-acetylgalactosamine) to generate diSia (disialic acid) motifs specifically on O-glycans.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:610636 CAPLUS

DOCUMENT NUMBER: 139:161500

TITLE: Sixth type of α 2,8-sialyltransferase (ST8Sia VI) that sialylates O-glycans and second type of β -galactoside α 2,6-sialyltransferase (ST6Gal II), which sialylates Gal β 1,4GlcNAc structures on oligosaccharides preferentially from human and mouse
INVENTOR(S): Takashima, Shou; Tsujimoto, Masafumi; Tsuji, Shuichi
PATENT ASSIGNEE(S): Riken Corp., Japan
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003064655	A1	20030807	WO 2003-JP883	20030130
W: JP, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR				
US 2006057696	A1	20060316	US 2005-501930	20050317
PRIORITY APPLN. INFO.:			JP 2002-21159	A 20020130
			JP 2002-122673	A 20020424
			WO 2003-JP883	W 20030130

AB Provided are an O-glycan α 2,8-sialyltransferase having a novel substrate specificity and a substrate selectivity and a β -galactoside α 2,6-sialyltransferase having a novel substrate specificity and a substrate selectivity, encoding cDNAs, and recombinant expression. A novel member of the mouse α 2,8-sialyltransferase (ST8Sia) family, designated ST8Sia VI, was identified by BLAST anal. of expressed sequence tags. The sequence of ST8Sia VI encodes a protein of 398 amino acids and shows 42.0 and 38.3% amino acid sequence identities to mouse α 2,8-sialyltransferases ST8Sia I (GD3 synthase) and ST8Sia V (GD1c, GT1a, GQ1b, and GT3 synthases), resp. The recombinant soluble form of ST8Sia VI expressed in COS-7

cells exhibited $\alpha 2,8$ -sialyltransferase activity toward both glycolipids and glycoproteins that have the NeuAc $\alpha 2,3(6)$ Gal sequence at the nonreducing end of their carbohydrate groups. This enzyme formed NeuAc $\alpha 2,8$ NeuAc structures, but not oligosialic or polysialic acid structures. Anal. of the fetuin sialylated by ST8Sia VI indicated that ST8Sia VI prefers O-glycans to N-glycans as acceptor substrates. Substrate specificities and kinetic properties also showed that ST8Sia VI prefers O-glycans to glycolipids as acceptor substrates. ST8Sia VI also exhibited activity toward oligosaccharides such as sialyllactose and sialyllactosamine, and the structure of the minimal acceptor substrate for ST8Sia VI was determined as the NeuAc $\alpha 2,3(6)$ Gal sequence. The expression of the ST8Sia VI gene was ubiquitous, and the highest expression was observed in kidney, with three major transcripts of 8.2, 3.8, and 2.7 kb. This is the first report of a mammalian $\alpha 2,8$ -sialyltransferase that sialylates O-glycans preferentially. A novel member of the human β -galactoside $\alpha 2,6$ -sialyltransferase (ST6Gal) family, designated ST6Gal II, was identified by BLAST anal. of expressed sequence tags and genomic sequences. The sequence of ST6Gal II encoded a protein of 529 amino acids, and it showed 48.9% amino acid sequence identity with human ST6Gal I. Recombinant ST6Gal II exhibited $\alpha 2,6$ -sialyltransferase activity toward oligosaccharides that have the Gal $\beta 1,4$ GlcNAc sequence at the nonreducing end of their carbohydrate groups, but it exhibited relatively low and no activities toward some glycoproteins and glycolipids, resp. It is concluded that ST6Gal II is an oligosaccharide-specific enzyme compared with ST6Gal I, which exhibits broad substrate specificities, and is mainly involved in the synthesis of sialyloligosaccharides. The expression of the ST6Gal II gene was significantly detected by reverse transcription PCR in small intestine, colon, and fetal brain, whereas the ST6Gal I gene was ubiquitously expressed, and its expression levels were much higher than those of the ST6Gal II gene.

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- ☐ 1. Polysialyltransferases: major players in polysialic acid synthesis on the neural cell adhesion molecule
Angata, K. / Fukuda, M., *Biochimie*, Jan 2003
 ...linear homopolymer of alpha 2,8-linked sialic acid, and is...NCAM) via a typical N-linked **glycan** in vertebrate neural system...two polysialyltransferases, **ST8Sia II (STX)** and **ST8Sia IV (PST)**...six genes encoding alpha 2,8-sialyltransferases. **ST8Sia II** and **IV** are expressed...residues to an acceptor N -**glycan** containing a NeuNAc alpha...
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[similar results](#)
- ☐ 2. Delineation of the minimal catalytic domain of human Galβ1-3GalNAc α2,3-sialyltransferase (hST3Gal I)
Vallejo-Ruiz^a, V. / Haque^a, R. / Mir^a, A.-M. / Schwientek^b, T. / Mandel^b, U. / Cacan^a, R. / Delannoy^a, P. / Harduin-Lepers^a, A., *Biochimica et Biophysica Acta (BBA)/Protein Structure and Molecular Enzymology*, Oct 2001
 ...into the structure/function of this **sialyltransferase**, we studied protein expression, N -**glycan** processing and enzymatic activity...with complex and high mannose type **glycans** on each of the five potential N...Catalytic domain N -Glycosylation **Sialyltransferase** Structure-function 1 Introduction...to form the ganglioside G M1b) or O -glycosyl proteins. ST3Gal I is widely...submaxillary gland [7] , chick brain [8] and human placenta [9] . Computer-based...
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- ☐ 3. Pathways of O-glycan biosynthesis in cancer cells
Brockhausen, I., *Biochimica et Biophysica Acta (BBA)/General Subjects*, Dec 1999
 ...Elsevier Science B.V. Review Pathways of O -**glycan** biosynthesis in cancer cells Inka Brockhausen...surfaces of cancer cells. The structures of O -**glycans** are often unusual or abnormal in cancer...epitopes have been developed as a vaccine [8-11] . MUC1 peptides injected into mice...the complex structures of mucin-type O -**glycans**. Very few of the glycosyltransferases...

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- ☐ 4. [The monoclonal antibody CHO-131 binds to a core 2 O-glycan terminated with sialyl-Lewis x, which is a functional glycan...](#)
Bruce Walcheck / Anne Leppanen / Richard D Cummings / Randall N Knibbs / Lloyd M Stoolman / Shelia R Alexander / Polly E Mattila / Rodger P McEver, *Blood*, Jun 2002
 ...glycopeptides containing precise **O-glycan** structures. CHO-131 bound...extended from a core 2 branch (C2-O-sLe(X)), but CHO-131 demonstrated...of the glycosyltransferases **alpha2,3-sialyltransferase**, alpha1,3-fucosyltransferase-VII...N-acetylglucosaminyltransferase (C2GnT). The C2-O-sLe(X) motif occurs primarily...and represented a subset (37.8% +/- 18.3%) of cutaneous lymphocyte-associated...which detects sLe(X)-related **glycans**. Unlike anti-sLe(X) mAbs...

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- ☐ 5. [IgA1 molecules produced by tonsillar lymphocytes are under-O-glycosylated in IgA nephropathy](#)
Horie, A. / Hiki, Y. / Odani, H. / Yasuda, Y. / Takahashi, M. / Kato, M. / Iwase, H. / (...) / Maeda, K., *American Journal of Kidney Diseases*, Sep 2003
 ...acid [NANA]) could bind to Gal with an **alpha2,3** linkage to GalNAc with an **alpha2,6** linkage (Fig 1A) . According to Mattu et al, 5 **O -glycans** are located at Thr228, Ser230, and Ser232...Asialo Type and Asialo-Agalacto Type **O -Glycan** of Patients Asialo (%)
 Asialo-Agalacto (%) * Patient with IgA nephropathy 1 16.7 8.3 2 30.4 4.3 3 50.0 0.0 4 26.7 20.0 5...

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- ☐ 6. [Gene Structure and Transcriptional Regulation of Human Gal \$\beta\$ 1,4\(3\) GlcNAc \$\alpha\$ 2,3-Sialyltransferase VI \(hST3Gal VI\) Gene...](#)
Taniguchi, A. / Kaneta, R. / Morishita, K. / Matsumoto, K., *Biochemical and Biophysical Research Communications*, Oct 2001
 ...between lectin-binding phenotype and **sialyltransferase** expression J. Biol. Chem. 271...N. M. Marth J. D. The ST3Gal-I **sialyltransferase** controls CD8+ T lymphocyte homeostasis by modulating **O-glycan** biosynthesis Immunity 12 2000...Tissue-specific expression of **sialyltransferases** J. Biol. Chem. 264 1989 10931...beta 1,3GalNAc/Gal beta 1,4GlcNAc **alpha2,3-sialyltransferase** J. Biol. Chem...

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- ☐ 7. [Solid-phase synthesis of core 2 O-linked glycopeptide and its enzymatic sialylation](#)
Takano, Y. / Kojima, N. / Nakahara, Y. / Hojo, H. / Nakahara, Y., *Tetrahedron*, Oct 2003
 ...efficiency by using the specific **sialyltransferases**. Chemo-enzymatic synthesis of the core 2-O-linked sialoglycopeptide is demonstrated...glycopeptide solid-phase synthesis **sialyltransferase** 1 Introduction There is increasing...for glycopeptides with unambiguous **glycan** structure. The usefulness of the...achieved the solid-phase synthesis of **O-linked** (core 1) glycopeptide such as the B-chain of **alpha2HS** glycoprotein, 3 the N-terminal region...Wiskott-Aldrich syndrome 7 and AIDS. 8 The typical structure of core 2 oligosaccharide...

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- ☐ **8. [Recovery of Intact 2-Aminobenzamide-Labeled O-Glycans Released from Glycoproteins by Hydrazinolysis](#)** [PDF-36K]
May 2002
...performed at the temperatures used for N-**glycan** release (typically 85°C) the reaction leads to substantial peeling of **O-glycans** (**8**). Lower temperatures minimize this peeling...the mass of the peptide with a single **O-glycosidically** linked **glycan** consisting of a tetrasac- charide (SGP-1...pentasaccharide (SGP-2), [M H] at m/z 2132.**8** and a sialylated fucosylated hexasaccharide...
[http://www.bioch.ox.ac.uk/glycob/papers/anal_biochem_(...)]
[similar results](#)

- ☐ **9. [Exploring the glycan repertoire of genetically modified mice by isolation and profiling of the major glycan classes and...](#)**
A E Manzi / K Norgard-Sumnicht / S Argade / J D Marth / H van Halbeek / A Varki, *Glycobiology*, Jul 2000
...glycosyltransferases. N- and **O-glycan** mixtures from organs of mice...CMP-Sia:Galbeta1-4GlcNAc **alpha2-6 sialyltransferase**) were studied by the nano-NMR...approach, showing no detectable **alpha2-6-linked** sialic acids. Thus...very rare in ganglioside **glycans**, even in wild-type tissues. In mice deficient in GalNAcT-**8** (UDP-GalNAc:polypeptide **O-Ser/Thr** GalNAc transferase...

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- ☐ **10. [Organization of ganglioside synthesis in the Golgi apparatus](#)**
Maccioni, H.J.F. / Daniotti, J.L. / Martina, J.A., *Biochimica et Biophysica Acta (BBA)/Molecular and Cell Biology of Lipids*, Feb 1999
...suggested for oligodendrocytes [**8**] . However, it was recently reported...1 The pathway of biosynthesis of **o-**, **a-**, **b-** and **c-series** gangliosides...Sial-T1, CMP-NeuAc:lactosylceramide **sialyltransferase** Sial-T2, CMP-NeuAc:GM3 **sialyltransferase**...glycosyltransferases [14-17] . Different **sialyltransferases** (Sial-T1, Sial-T2/Sial-T3) build...corresponding intermediates of the **o-**, **a-**, **b-** or **c-series** (for review...92) Rat D17809 Asn 79 274 [133] **Sialyltransferases** Sial-T1 Human AB018356 Asn 30 180...224 334 GenBank Sial-T2 (EC 2.4.99.**8**) Chicken U73176 Asn 57 105 200...

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- ☐ **11. [AtlasTM Glass Human 3 8 II Microarray](#)** [PDF-803K]
Dec 2001
AtlasTM Glass Human 3.**8** II Microarray Gene List (PT3655-3E) PT3655-3E...PR1Y566 1
The layout of the Atlas Glass 3.**8** Microarray consists of a repeating block of...I J K L G a
b c d e f g h i 1 2 3 4 5 6 7 **8** 9 a b c d e f g h i 1 2 3 4 5 6 7 **8** 9 a b...
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- ☐ **12. [Molecular cloning and expression of a sixth type of alpha 2,8-sialyltransferase \(ST8Sia VI\) that sialylates O-glycans.](#)**
Shou Takashima / Hide-Ki Ishida / Toshiyuki Inazu / Takayuki Ando / Hideharu Ishida / Makoto Kiso / Shuichi Tsuji / Masafumi Tsujimoto, *J Biol Chem*, Jul 2002
...**VI** expressed in COS-7 cells exhibited **alpha2,8-sialyltransferase** activity toward both glycolipids and...Analysis of the fetuin sialylated by **ST8Sia VI** indicated that **ST8Sia VI** prefers **O-glycans** to N-**glycans** as acceptor substrates...

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☐ **13. Mucin-type O-glycans and leukosialin**

Fukuda, M. / Tsuboi, S., *Biochimica et Biophysica Acta (BBA)/Molecular Basis of Disease*, Oct 1999

...S0925443999000678 S0925-4439(99)00067-8] Elsevier Science B.V. Review Mucin-type **O -glycans** and leukosialin Minoru Fukuda Corresponding...glycophorin A contain approx. 80 and 15 **O** -linked oligosaccharides, respectively, and are denoted by , while one N -**glycan** is denoted by Psi . The potential...a decreased amount of glycophorin [8,9] . Those cells, instead, express...Gal(beta 1-3)GalNAc:(alpha -2,3) **sialyltransferase** was more abundant in medullary thymocytes...thymocytes is associated with changes in **O -glycans** [35] . It has been shown that thymocyte-thymus...

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☐ **14. Stable expression of recombinant human α 3/4 fucosyltransferase III in Spodoptera frugiperda Sf9 cells**

Morais, V.A. / Costa, J., *Journal of Biotechnology*, Dec 2003

...S0168165603002268 S0168-1656(03)00226-8 Elsevier B.V. Stable expression...Watkins, 1995). Fucosylated **glycans** of the Lewis type mediate important...VII (Britten et al., 1998), **O -glycan** core 2 beta6 acetylglucosaminyltransferase...glycoconjugate Galbeta3GlcNAc-**O**-(CH 2) 3 NHCO(CH 2) 5 NH-biotin...analyzed by electrophoresis in 0.8% (w/v) agarose gels. Amplified...

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☐ **15. PRODUCTION AND OF VIRUSES, VIRAL ISOLATES AND VACCINES**

MARZIO, Giuseppe / PAU, Maria, Grazia / OPSTELTEN, Dirk, Jan, Elbertus / UYTDEHAAG, Alphonsus, Gerardus, Cornelis, Maria / CRUCCELL HOLLAND B.V., *PATENT COOPERATION TREATY APPLICATION*, Jun 2003

...acid encoding an **alpha2,6** or an **alpha2,3 sialyltransferase**. The invention also provides a...over-expresses a nucleic acid encoding an **alpha2,6 sialyltransferase** or a functional equivalent thereof...rat and human. Preferably said **alpha2,6 sialyltransferase** is human **alpha2,6 sialyltransferase**...

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☐ **16. ENGINEERING INTRACELLULAR SIALYLATION PATHWAYS**

BETENBAUGH, Michael, J. / LAWRENCE, Shawn / LEE, Yuan, C. / COLEMAN, Timothy, A. / PALTER, Karen / JARVIS, Don / UNIVERSITY OF WYOMING, *PATENT COOPERATION TREATY APPLICATION*, Jun 2001

...Glycoscience and Glycotechnology **8**:101- 114, van Die et al. (1996...derived glycoproteins lack complex N- **glycans**. This absence may be attributed...mammalian cells, the expression of **sialyltransferases**, galactosyl transferases and other...oligosaccharide. Figure 4a depicts a hybrid **glycan** from *Estigmaena acrea* (Ea-4) insect cells. 5 Figure 4b depicts a complex **glycan** from *Estigmaena acrea* (Ea-4) insect...structure of Oligosaccharide G. Figure **8** depicts the glycosylation pathway...depicts the chromatogram of a 2,3-**Sialyltransferase** assay following Reverse Phase-High...

Full text available at patent office. For more in-depth searching go to  **LexisNexis®**

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☐ **17. The epitope recognized by the unique anti-MUC1 monoclonal antibody MY.1E12**

involves...

Takeuchi, H. / Kato, K. / Denda-Nagai, K. / Hanisch, F.-G. / Clausen, H. / Irimura, T., *Journal of Immunological Methods*, Dec 2002

...interactions between the sialic acid residues of **O-glycans** and the amino groups at the terminal...to the SM-3 mAb, core 2 expression of **O-glycans** outside the PDTR appears to block its...the epitope structure at the level of **O-glycan-peptide** conjugates. Two different FITC-conjugated...

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☐ **18. ENGINEERING INTRACELLULAR SIALYLATION PATHWAYS**

BETENBAUGH, Michael, J. / LAWRENCE, Shawn / LEE, Yuan, C. / JARVIS, Don / COLEMAN, Timothy, A. / UNIVERSITY OF WYOMING, PATENT COOPERATION TREATY APPLICATION, Sep 2000

...Glycoscience and Glycotechnology **8**:101- 114, van Die et al. (1996...derived glycoproteins lack complex N- **glycans**. This absence may be attributed...mammalian cells, the expression of **sialyltransferases**, galactosyltransferases and other...oligosaccharide. Figure 4a depicts a hybrid **glycan** from *Estigmena acrea* (Ea-4) insect cells. Figure 4b depicts a complex **glycan** from *Estigmena acrea* (Ea-4) insect...structure of Oligosaccharide G. Figure **8** depicts the glycosylation pathway...depicts the chromatogram of a 2,3-**Sialyltransferase** assay following Reverse Phase-High...

Full text available at patent office. For more in-depth searching go to  **LexisNexis**

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☐ **19. FLUORINATED GLUCOSAMINE ANALOGS USEFUL FOR MODULATING POST-TRANSLATIONAL GLYCOSYLATIONS ON CELLS**

SACKSTEIN, Robert / DIMITROFF, Charles, J. / BERNACKI, Ralph, J. / SHARMA, Moheswar / MATTA, Khushi, L. / PAUL, Brajeswar / THE BRIGHAM AND WOMEN'S HOSPITAL, INC., PATENT COOPERATION TREATY APPLICATION, Nov 2003

...selectin-binding determinants on PSGL-1 **O-glycans**. Tissue-specific migration of lymphocytes...N-acetylglucosamines include 2-acetamido-2- deoxy-1,3,6-tri-**O**-acetyl-4-deoxy-4-fluoro-D-glucopyranose and 2- acetamido- 2- deoxy- 1,4,6-tri-**O**-acetyl-3 - deoxy-3 -fluoro-D-glucopyrano...

Full text available at patent office. For more in-depth searching go to  **LexisNexis**

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☐ **20. O-mannosyl glycans: from yeast to novel associations with human disease**

Willer, T. / Valero, M.C. / Tanner, W. / Cruces, J. / Strahl, S., *Current Opinion in Structural Biology*, Oct 2003

...reported evidence of the presence of **O-mannosyl glycans** among oligosaccharides on chondroitin...proteoglycans isolated from mammalian brain [**8,9**] . The core structure suggested...of the earlier structural data on **O-mannosyl glycans** isolated from brain chondroitin sulfate proteoglycans [**8**] suggests also 2- rather than 3-substituted...in the elongation and branching of **O-mannosyl glycans** remain to be identified. However...families of galactosyltransferases [**28**] , **sialyltransferases** [**29**] and fucosyltransferases [**30**...

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S Takashima, H Ishida, T Inazu, T Ando, H Ishida, ... - Journal of Biological Chemistry, 2002 - jbc.org

... I, V, and VI, and these can be also further divided, ganglioside synthases (**ST8Sia**

I and V) and **O-glycan 2,8-sialyltransferase (ST8Sia VI)**, although **ST8Sia VI** ...

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Molecular Cloning and Expression of Mouse GD1 alpha/GT1a alpha/GQ1b alpha Synthase (ST6GalNAc VI) ... - group of 2 »

T Okajima, HH Chen, H Ito, M Kiso, T Tai, K ... - Journal of Biological Chemistry, 2000 - jbc.org

... III, V, and VI, ST6GalNAc III utilized both **O-glycan** and glycolipids ... and Expression

of a Sixth Type of **alpha 2,8-Sialyltransferase (ST8Sia VI) That Sialylates O ...**

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Molecular Cloning of a Novel alpha 2, 3-Sialyltransferase (ST3Gal VI) That Sialylates Type II ... - group of 2 »

T Okajima, S Fukumoto, H Miyazaki, H Ishida, M ... - Journal of Biological Chemistry, 1999 - jbc.org

... ie the ST3Gal-, ST6Gal-, ST6GalNAc-, and **ST8Sia**- subfamilies ... the expression pattern

of ST3Gal VI compared with ... involved in the synthesis of **O-glycan** and ganglio ...

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Cancer-Associated Glycosphingolipid Antigens: Their Structure, Organization, and Function - group of 5 »

A Anatomica - Acta Anatomica, 1998 - content.karger.com

... for 1 4GalNAc transferase and 2 8 **sialyltransferase** to B16 ... b antigen (III 4 V 4 VI

2 Fuc 3 ... Matta, I. Brockhausen (1994) Alterations of **O-glycan** biosynthesis in ...

Cited by 61 - [Web Search](#) - [BL Direct](#)

Correlation between the sialylation of cell surface Thomsen-Friedenreich antigen and the metastatic ... - group of 5 »

YA Nemoto-Sasaki, MA Mitsuki, MA Morimoto-Tomita, ... - Glycoconjugate Journal, 2001 - Springer

... Page 3. **O-glycan** sialylation in metastatic colon carcinoma 897 (BSA) and 2 mM EDTA). ...

Page 5. **O-glycan** sialylation in metastatic colon carcinoma 899 ...

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... of the human {alpha} 1, 3/4-fucosyltransferase III,-V, and-VI (hFucTIII,-V and-VI) are necessary for ... - group of 4 »

LL Christensen, UB Jensen, P Bross, TF Ørntoft - Glycobiology, 2000 - glycob.oupjournals.org

... 1. Schematic presentation of the hFucTIII, -V and -VI proteins ... core 2 β-1,6-N-acetyl-

glucosaminyltransferase [C2GnT] and chicken GD3synthase [**ST8Sia I**] (Fast ...

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Region-specific and epileptogenic-dependent expression of six subtypes of alpha 2, 3- ... - group of 3 »

H Matsushashi, Y Horii, K Kato - Journal of Neurochemistry, 2003 - Blackwell Synergy

... In addition, double mutant mice of GD3 synthase (**ST8Sia I**-sialyltransferase) and
1 ... cellular distribution of all 2,3-sialyltransferase mRNAs (**ST3Gal I-VI**) in the ...
[Cited by 1](#) - [Web Search](#) - [BL Direct](#)

Different glycosyltransferases are differentially processed for secretion, dimerization, and ... - group of 4 »

A El-Battari, M Prorok, K Angata, S Mathieu, M ... - Glycobiology, 2003 - glycob.oupjournals.org
... not affect their enzyme activities in vivo, as seen previously on **ST8Sia-IV** (Angata ...
stem region, with the first 64 amino-acid sequence of FucT-VI (amino acids 1 ...
[Cited by 3](#) - [Web Search](#) - [BL Direct](#)

Glycoproteins and Their Relationship to Human Disease - group of 4 »

A Anatomica - Acta Anatomica, 1998 - content.karger.com
... transferases act on 2-3-linked sialic acid residues attached to **O-glycan** chains
[Brockhausen ... Man-transferase VI catalyzes the transfer from Dol-P-Man to the 1-6 ...
[Web Search](#)

AG ENETIC A PPROACH TO M AMMALIAN G LYCAN F UNCTION - group of 4 »

JB Lowe, JD Marth - Annual Review of Biochemistry, 2003 - biochem.annualreviews.org
... glycoproteins [discussed in (66)], but a mammalian GlcNAcT-VI activity has ... in linkage
represents the initiating step in classical **O-glycan** synthesis (Figure 3 ...
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... chains of Gal β -1,4-GlcNAc 2,6-sialyltransferase ... Stanley,P. (1991) Cloning of a human

alpha (1,3 ... **Purification**, characterization and comparison with human enzyme ...

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NP Tomiya, SP Narang, YCP Lee, MJP Betenbaugh - Glycoconjugate Journal, 2004 - Springer

... 6)-sialyltransferase (ST6GalNAc), and α 2,8- **sialyltransferase (ST8Sia)** [90,91 ... there

is no report on **purification** or cloning ... kind of ER α (1,2)-mannosidase from ...

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... sialoglycoprotein in sea urchin sperm contains a novel polysialic acid, an {alpha} 2, 9-linked poly ... - group of 5 »

S Miyata, C Sato, S Kitamura, M Toriyama, K ... - Glycobiology, 2004 - glycob.oupjournals.org

... of novel 8-O-sulfated 2,9-linked polyNeu5Ac-containing **O-glycan** chains of ... **Purification**

of a major Sia-containing glycopeptide fraction from sea urchin ...

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Correlation between the sialylation of cell surface Thomsen-Friedenreich antigen and the metastatic ... - group of 5 »

YA Nemoto-Sasaki, MA Mitsuki, MA Morimoto-Tomita, ... - Glycoconjugate Journal, 2001 - Springer

... Page 5. **O-glycan** sialylation in metastatic colon carcinoma 899 Figure 2. Flow cytometric analysis of colon 38 cells, SL4 cells, and 38-N4 cells with monoclonal ...

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PF Sears, CHF Wong - Cellular and Molecular Life Sciences (CMLS), 1998 - Springer

... Figure 4. **O-glycan** cores and enzymatic routes between them. (Adapted from I.

Brockhausen [157]). and these are shown in table 2. The core five mannose and two ...

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E Grabenhorst, HS Conradt - Journal of Biological Chemistry, 1999 - jbc.org

... cell line by quantitative immunoaffinity **purification** (25, 26 ... I, ST3Gal III) <

GnT-III < **ST8Sia** IV < GalT ... 40) reported a decrease of core 2 **O-glycan** synthesis in ...

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... **O-glycan** branches synthesis, 465 **purification** and cDNA ... polymers, 87 **Alpha**-hemolysin, 613f **Alpha**-series ganglioside ... lation in, 29 Evolution, of N- and **O-glycan** ...

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A Anatomica - Acta Anatomica, 1998 - content.karger.com

... by inclusion of phosphatidylcholine in the **purification** and assay ... the common core 1 or 2 structures (table 3 ... transferase, and this limits the **O-glycan** chains to ...

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W Kuhns - Acta Anat, 1998 - content.karger.com

... **Purification** Cloning to homogeneity ... Table 3. **O-glycan** core structures ... 1 Gal β 1-3 GalNAc α -Ser/Thr-R 2 GlcNAc β 1-6[Gal β 1-3]GalNAc α -Ser/Thr-R 3 GlcNAc β 1-3 ...

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